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COPEIA, 2007, Nos. 1–4

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 Gulf of Mexico, *Halichoeres burekai* n. sp. [W] 798–807.
 Hawaii, *Eleutherodactylus coqui* 281–291; reef fish (8 spp.) 543–555; *Sicydium stimpsoni* 755–764.
 India, *Psilohynchus (sucatio, balitora)* 267–280; *Eutropiichthys (murius, vacha)* 866–885.
 Indian Ocean, *Pachycara (priedei)* n. sp., *cousinsi* n. sp.), *Lycenchelys antarctica* [S, Crozet Plateau] 586–593; *Malacosteus (australis)* n. sp., *niger* 886–900.
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 Myanmar, *Eutropiichthys (britzi)* n. sp., *burmannicus*) 866–885.
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 Nevada, *Gopherus agassizii* 378–386; *Crotalus mitchellii stephensi* 920–932.
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 Pakistan, *Eutropiichthys vacha* 866–885.
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- Philippines, *Platymantis diesmosi* n. sp. 251-266; *Pteropsaron* (*springeri* n. sp., *evolans*, *formosensis*, *heemstrai*, *incisum*, *natalensis*, *neocaledonicus*), *Osopsaron* (*karlik*, *verecundum*) 364-377; *Luperosaurus* (*corfieldi* n. sp., *cumingii*) 413-425; *Photoplagios laterofenestra* n. sp. 622-629.
- South Carolina, *Lampropeltis getula* 507-519; *Trachemys scripta* 534-542.
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- Tanzania, *Probreviceps m. macrodactylus* 726-733.
- Tennessee, *Storeria dekayi* 577-585; *Percina williamsi* n. sp. 605-613; *Eurycea junaluska* 952-958.
- Thailand, *Eutropiichthys* (*burmannicus*, *salweenensis* n. sp.) 866-885.
- Texas, *Halichoeres burekai* n. sp. [Gulf of Mexico] 798-807.
- Turks & Caicos Is., *Cyclura* (*carinata bartschi*, *c. carinata*) 734-739.
- Utah, *Gopherus agassizii* 378-386.
- Venezuela, *Stenocercus* (*santander* n. sp., *erythrogastrus*) 56-61; *Hypancistrus* (*contradens* n. sp., *debilitata* n. sp., *furunculus* n. sp., *lunaorum* n. sp.) 62-79; *Sternarchogiton* (*nattereri*, *porcinum*, *preto* n. sp.) 387-402; *Rhynchodoras castilloi* n. sp. 672-684; *Schizodon scotorhabdodus* n. sp. 711-725.
- Virginia, *Caretta caretta* [Chesapeake Bay] 478-489; *Percina williamsi* n. sp. 605-613; *Plethodon cinereus* 630-640.
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- HABITAT, *Alsophis portoricensis anegadae* (several habitats except grassy plain) (usage & degradation by man) 93-100; *Dicamptodon tenebrosus* (stream culverts) (disturb. by man) 123-130; *Osteocephalus taurinus*, *Phyllomedusa tarsiuis* (breeding pond avail.) (effects of deforestation) 186-192; *Platymantis diesmosi* n. sp. (limited to forest terr. microhab., 950-1160 m elev.) 251-266; *Eleutherodactylus coqui* (microhab., foraging & nocturnal perching) 281-291; *Crepidophryne* (*epitoca*, *chompipe* n. sp., *guanacaste* n. sp.) (montane, in leaf litter) 304-314; *Synophobranchius calvus* n. sp. (cont. slope) 315-323; *Hasemanian nambiquara* n. sp. 350-354; *Sternarchogiton* (*nattereri*, *porcinum*, *preto* n. sp., *labiatus* n. sp.) (lowland in deep channels) 387-402; *Natrix tessellata* (streams) 426-435; *Rana grylio* (Florida Everglades) 436-448; *Lampropeltis getula* (changes poss. due to various natural causes; protected from human degradation) 507-519; *Bolitoglossa gomezi* n. sp., *bramei* n. sp.) (montane) 556-565; *Plethodontidae* (trogloxenic; cave twilight zone) (species-richness & species-interactions rel.) 594-604; *Percina williamsi* n. sp. (descrip. of habitat & environ. conditions) 605-613; *Cottus* (*tallapoosae* n. sp., *chattahoochee* n. sp.) (rocky shoals & riffles of sm. upland streams) 641-655; *Schizodon scotorhabdodus* n. sp. (prob. lentic) 711-725; *Atractus ronnie* n. sp. (on forest litter) 788-797; *Halichoeres burekai* n. sp. (reef crest) 798-807; *Potamarius usumacintae* n. sp. (freshw., in med.-lg. rivers) 818-828; *Allobates nipitidea* n. sp. (wet trop. forests; adults in leaf litter) 844-854; *Leptodactylus* (sp., *fuscus*), *Eleutherodactylus* cf. *juipoca*, *Proceratophrys* sp. (Brazilian savannah) (diet var. & intrapopn. dynamics) 855-865; *Amolops caelumnocis* n. sp. (mtn. streams, 2400 m elev.) 913-919; *Hypsiboas* (*semiguttatus*, *curupi* n. sp.) (montane forest) 933-951; *Eurycea junaluska* (larvae & stream habitat; human disturb.) 952-958; amphibians (biodiver. & ecology; conserv.; habitat loss & human disturb.) 967-979.
- HIBERNATION, *Gopherus agassizii* (environ. cues for onset, duration & termination) 378-386; *Kinostemon sonoriense* (estivate during periods of extreme drought) 403-412; *Cyclorana australis* (aestivation; cocoon form.) 901-912.
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- HOME RANGE, *Varanus komodoensis* (size & struc.) 462-470; *Gopherus polyphemus* (affect of human handling) 614-621.
- IMMUNITY, *Plethodon cinereus* (antifungal bacteria on skin) 630-640.
- LARVAE, *Colostethus subfolioidifans* n. sp. (tdpl. descrip.) 114-122; *Dicamptodon tenebrosus* (surv. & growth; spatial & temporal var.) 123-130; *Rana sylvatica* (intraguild pred. on & compet. interactions btwn. spp.) 131-139; *Hypomesus* (*chishimaensis*, *nipponensis*) (phyl. anal.; alternate life hist. types) 180-185; *Gopherus polyphemus* (geogr. var.) 355-363; *Luperosaurus corfieldi* n. sp. (observ. in lab.) 413-425; *Bufo*idae, *Hylidae*, *Ranidae* (tdpl. oral deformities; parasite) 449-458; *Litoria verreauxii alpina* (tdpl. survey; modeling) 765-770; *Allobates nipitidea* n. sp. (descrip.) 844-854; *Hypsiboas* (*semiguttatus*, *curupi* n. sp.) (tdpl. descrip.) 933-951; *Eurycea junaluska* (larvae & habitat usage; human disturb.) 952-958; anurans (tdpls. & detection of oral pathogens) 1024-1028.
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MORPHOLOGY, *Ceratioidei* (families & genera rel. based on morph. charac. of metamorph. females) 1–34; *Stenocercus santander n. sp.* (diff. from other *Stenocercus* by comb. charac.) 56–61; *Hypancistrus (contradens n. sp., debilitata n. sp., furunculus n. sp., lunaorum n. sp.)* (morph. features) 62–79; *Gerres morambiquensis n. sp.* (unique comb. charac.) (redescrip. of *G. maldivensis*) (notes on 7 nominal spp.) 85–92; *Alsophis portoricensis anegadae* (morphometric charac.) (male/female compar.) 93–100; *Muraena (augusti, helena, melanotis, robusta)* (morphometric differences) 101–113; *Colostethus subfolionidificans n. sp.* (descrip. of adult & tdpl. diagn.) 114–122; *Arapaima gigas* (devel. occipital region) 218–224; *Platymantis diesmosi n. sp.* (diagn., descrip.) 251–266; *Psilorhynchus (sucatio, balitora)* (anatomy of gill arches) 267–280; *Akysis (variegatus, scorteus n. sp., galeatus n. sp.)* (descrip., differ in head sculpture) 292–303; *Synaphobranchus calvus n. sp.* (diagn., descrip.) (absence of head scales; unique blue belly) 304–314; *Gasterosteus aculeatus* (wild & laboratory popns. compared for sex. dimorph. btwn. male & female) 336–349; *Haemania nambiquara n. sp.* (disting. by unique color. pttm.) 350–354; *Sternarchogiton (nattereri, preto n. sp., labiatus n. sp.)* (diagn., descrip.) 387–402; *Luperosaurus corfieldi n. sp.* (diagn., descrip.) 413–425; *Bufo* *nidae*, *Hylidae*, *Ranidae* (descript. of tdpl. oral deformities) 449–458; *Bolitoglossa (gomezi n. sp., bramei n. sp.)* (diagn., descrip.; osteology) 556–565; *Pachycara (priedei n. sp., cousinsi n. sp.)* (diagn., descrip.) (compar. to congeners) 586–593; *Percina (williamsi n. sp.)* (diagn., descrip.) (related to *P. macrocephala*) 605–613; *Photoplagios (lateofenestra n. sp.)* (diagn., descrip.) 622–629; *Cottus (tallapoosae n. sp., chattahoochee n. sp.)* (diagn., descrip.) 641–655; *Rhynchodoras (castilloi n. sp.)* (diagn., descrip.) (doradid & auchenipterid morph.) 672–684; *Careproctus (comus n. sp., faunus n. sp.)* (diagn., descrip.) 699–710; *Schizodon (scotorhabdus n. sp., kneri, isognathus)* (diagn., descrip.) (compar.) 711–

725; *Probreviceps m. macrodactylus* (descrip. of clutch & embryos) 726-733; *Sicydium (stimpsoni, punctatum)* (allometry; pelvic sucker, locomotion & climbing) 755-764; *Ophichthus (brevirostris n. sp.)* (diagn., descrip.) 783-787; *Atractus ronnie n. sp.* (diagn., descrip.) (hemipenis morph.) 788-797; *Halichoeres burekai n. sp.* (diagn., descrip.) (compar. w/ congeners) 798-807; *Hemiramphus spp.* & *Oxyporhamphus spp.* (vesicular swimbladder; phyl. rel.) 808-817; *Potamarius usumacintae n. sp.* (diagn., descrip.; head osteol.; tooth patches) 818-828; *Allobates niputidea n. sp.* (diagn., descrip.) (larvae descrip.) 844-854; *Eutropiichthys (britzi n. sp., salweenensis n. sp., murius, burmannicus, vacha)* (diagn., descrip.) 866-885; *Malacosteus (australis n. sp., niger)* (diagn., descrip.) 886-900; *Amolops caelumnocis n. sp.* (diagn., descrip., variation) 913-919; *Crotalus mitchellii stephensi* (morph. characters; phyl. anal.) (mtDNA, nucl. DNA) (systematics) 920-932; *Hypsiboas (curupi n. sp.)* (diagn., descrip.) (*semiguttatus*) (redescrip.) 933-951; *Nannophrys ceylonensis* (ontogen. changes, gut morph. & diet) 1012-1018.

NOMENCLATURE. Percomorpha/Acanthomorpha (taxon. changes) (Epinephelidae & Niphonidae resurrected) (Moronoidei n. subo.) 35-55; *Stenocerus santander n.sp.* (allopatry w/ *erythrogaster*) (*santander* misident. for *erythrogaster*) 56-61; *Hypancistrus (contradens n. sp., debilitata n. sp., furunculus n. sp., lunaorum n. sp.)* 62-79; *Gerres (mozambiquensis n. sp.)* (*maldivensis* redescrip.) (5 spp. complexes; 5 nominal spp. of uncertain status) 85-92; *Muraena (augusti, helena, melanotis, robusta)* (*augusti* valid; *robusta* in *Gymnothorax* clade) 101-113; *Colostethus subfolionidificans n. sp.* 114-122; *Eleutherodactylus (cordovae n. sp., orestes group defined)* (*meridionalis n. sp., conspicillatus group*) 140-149; *Astyanax (bockmanni n. sp.)* (*paranahaybae* of uncert. taxon. position) 150-162; *Chaenophryne quasiramifera n. sp.* 163-168; *Hypomesus nipponensis* (demoted, not sp. or spp. level) 180-185; *Platymantis diesmosi n. sp.* 251-266; *Akysis (scorteus n. sp., galeatus n. sp.; variegatus spp. group)* (redescrip. of *variegatus*) 292-303; *Crepidophryne (epiotica, chompipe n. sp., guanacaste n. sp.)* (spp. comparisons) (*epiotica* redescrip.) (diagn., descrip.) 304-314; *Synphobranthus calvus n. sp.* 315-323; *Hasemanina (nambiquara n. sp.)* 350-354; *Pteropsaron (springeri n. sp., evolans, formosensis, heemstrai, uncium, natalensis, neocaledonicus, Osoparon (karlik, verecundum)* (diagn., descrip.) (abbrev. key) 364-377; *Sternarchogiton* (rev. of genus) (*nattereri, porcinum, preto n. sp., labiatus n. sp.*) (diagn., descrip.) 387-402; *Luperosaurus corfieldi n. sp.* (status chg.) 413-425; *Bolitoglossa (gomezi n. sp., bramei n. sp.)* 556-565; *Pachycara (priedei n. sp., cousinsi n. sp.)* (diagn., descrip.; compar. to congeners) 586-593; *Percina williamsi n. sp.* 605-613; *Photoplagios (laterofenestra n. sp.)* 622-629; *Cottus (tallapoosae n. sp., chattahoochee n. sp.)* 641-655;

Rhynchodoras (castilloi n. sp.) 672-684; *Careproctus (comus n. sp., faunus n. sp.)* 699-710; *Schizodon (scotorhabdus n. sp.)* (*isognathus*, rev. descrip.; lectotype) 711-725; *Ophichthus (brevirostris n. sp.)* (holotype only; diagn., descrip.) 783-787; *Atractus (ronnie n. sp.)* (holotype only; diagn., descrip.) 788-797; *Halichoeres (burekai n. sp.)* (diagn., descrip.) 798-807; *Potamarius (usumacintae n. sp.)* (diagn., descrip.) 818-828; *Allobates (niputidea n. sp.)* (diagn., descrip.) 844-854; *Eutropiichthys* (rev. genus) (*britzi n. sp., salweenensis n. sp., murius, burmannicus, vacha*) (diagn., descrip.) (key to spp.) 866-885; *Malacosteus (australis n. sp., niger)* (diagn., descrip.) (key to spp.) 886-900; *Amolops caelumnocis n. sp.* (diagn., descrip.) 913-919; *Hypsiboas curupi n. sp.* 933-951; *Bufo proboscideus, Phrynosoma proboscideus* (secondary homonyms) 1029.

NONINDIGENOUS SPECIES, Eleutherodactylus coqui (pred. on Haw. endemics) 281-291.

NUCLEAR DNA, Serranidae, Percidae (placement) 35-55; *Muraena (augusti, helena, melanotis, robusta)* 101-113; *Esox spp.* (GH gene derivation) 205-211; *Percina (williamsi n. sp., macrocephala)* (mtDNA *cyt.b* & diverg. time estimates) 605-613; *Crotalus mitchellii stephensi* (phyl. anal., systematics) (mtDNA) (vicariant events) 920-932.

ORIENTATION, pond-breeding amphibians (4 spp.) (juv. migrat.) 685-698; *Caretta caretta* (hatchling migrat. & survival) 745-754.

OSTEOLOGY, Muraena (augusti, helena, melanotis, robusta) (vert. formula differences) 101-113; *Arapaima gigas* (devel. of occipito-vertebral region) 218-224; *Psilorhynchus (sucatio, balitora)* (compar. osteol. of gill arches) 267-280; *Synphobranthus calvus n. sp.* 315-323; *Pteropsaron, Hemerocoetes, Trichonotus, Limnichthys* (jaws & suspensorium), *Pteropsaron springeri n. sp.* (D fin pterygiophores) 364-377; *Sternarchogiton (nattereri, preto n. sp., labiatus n. sp.)* 387-402; *Ambystoma tigrinum nebulosum* (skeletochron.) 471-477; *Bolitoglossa (gomezi n. sp., bramei n. sp.)* (descriptive; tooth counts) 556-565; *Cottus (tallapoosae n. sp., chattahoochee n. sp. cf. caroliniae)* (preoperculae, suborbital series) 641-655; *Rhynchodoras woodsi* (neurocranium) 672-684; *Careproctus (comus n. sp., faunus n. sp., bowersianus, Temnocora candida)* (pectoral girdles) 699-710; *Schizodon (scotorhabdus n. sp., kneri, isognathus)* (C&S) 711-725; *Halichoeres burekai n. sp.* (green skeleton) (cranial bone comparison w/ *H. pictus*) 798-807; *Potamarius usumacintae n. sp.* (skull) 818-828; *Rana muscosa* (age, growth & longev.) (skeletochron.) 986-993.

PALEONTOLOGY, Luperosaurus corfieldi n. sp. (prob. speciation during Pleistocene isolation) 413-425; *Percina williamsi n. sp.* (diverged from *P. macrocephala* 2.3 mya) 605-613; *Cyclura carinata* (Pleistocene gene flow) 734-739; *Allobates niputidea n. sp.* (prob. speciation in

- Pliocene) 844–854; *Crotalus mitchellii stephensi* (Pliocene vicariance; speciation) 920–932.
- PARASITES, *Stenocercus santander* n. sp. (mite pockets diagnostic) 56–61; Bufonidae, Hylidae, Ranidae (*Batrachochytrium dendrobatidis* cause of tdp. oral deformities) 449–458.
- PARASITISM, Ceratioidei (evol. of sex. parasitism) 1–34.
- PATHOLOGY, Bufonidae, Hylidae, Ranidae (oral deformities in tdp.) 449–458; *Plethodon cinereus* (antifungal bacteria in skin) 630–640; anurans (tdpls. & detection of oral pathogens) 1024–1028.
- PHYLOGENETIC ANALYSIS, Ceratioidei (morph. charac.; monophyly confirmed) (families & genera rel.) 1–34; Percidae, Serranidae (rel. anal.) 35–55; *Muraena* (*augusti*, *helena*, *melanotis*, *robusta* plus 5 sympatric spp.) (ecol. & molec. anal.) 101–113; *Colostethus subfionidificans* n. sp.) (disting. from 14 other *C.* spp.) 114–122; *Eleutherodactylus cordovae* n. sp., *orestes* group redefined) (*meridionalis* n. sp., *conspicillatus* group) 140–149; *Hypomesus* (*chishimaensis*, *nipponensis*) (mtDNA & nucl. DNA; alternate life hist. types) 180–185; Esocidae (minisatellites, GH gene) 205–211; *Psilorhynchus* (*sucatio*, *balitora*) (morph. of gill-arches) (more closely related to non-cyprinid cypriniforms) 267–280; *Oncorhynchus* (*clarki*, *mykiss*, *masou*, *kisutch*, *tshawytscha*, *nerka*, *keta*, *gorbuscha*) (no consensus w/ morph. mtDNA only; added behavioral traits & life hist. to resolve ambiguities) 520–533; *Pachycara* (*priedei* n. sp., *cousinsi* n. sp.) (compar. to congeners) 586–593; *Percina* (*williamsi* n. sp., *macrocephala*) (mtDNA cyt.b) 605–613; *Cyclura* (*carinata bartschi*, *c. carinata*) (mtDNA; ssp. validity re-evaluated) 734–739; *Halichoeres* (*burkeae* n. sp.) (mtDNA) 798–807; *Hemiramphus* spp. & *Oxyporhamphus* spp. (func. & morph. rel.) 808–817; *Allobates* (*niputidea* n. sp. & other *Allobates*) (summary) 844–854; *Crotalus mitchellii stephensi* (morph. characters) (systematics) (phyl. anal.; mtDNA & nucl. DNA) (vicariant events) 920–932; Colocongridae, *Thalassenchelys coheni*, Derichthyidae (mtDNA; phyl. anal. & systematics) 959–966.
- PHYSIOLOGY, *Gopherus agassizii* (environ. cues & hibernation effects) 378–386; *Trachemys scripta* (uptake of nutrients & metabolic processes) 534–542; *Gopherus polyphemus* (effect of handling & corticosterone levels) 614–621; *Hemiramphus* spp. & *Oxyporhamphus* spp. (func.; vesicular swimbladder) 808–817; *Anolis carolinensis* (eggs & hormones; sex of offspring) 829–837; *Malacosteus* (*australis* n. sp., *niger*) (light organ & red light prod.) 886–900; *Cyclorana australis* (aestivation; ecol.) 901–912; *Testudo hermanni* (ecol.; reprod.; chem. commun.; sex. selection; sex. dimorph.) 980–985.
- POPULATION, *Xenosaurus* (*grandis*) (model of pop. dynamics) 324–333; Bufonidae, Hylidae, Ranidae (diff. popns. show variability in ptn. & no. of tdp. oral deformities) 449–458; *Lampropeltis getula* (poss. causes of decline) 507–519; pond-breeding amphibians (4 spp.) (juv. distrib., migrat., & orient.) 685–698; *Litoria verreauxii alpina* (status; threatened) 765–770; *Leptodactylus* (sp., *fuscus*), *Eleutherodactylus* cf. *jupitoca*, *Proceratophrys* sp. (intrapopn. diet var.) (ecol. & evol. implications) 855–865; *Sistrurus catenatus* (subadult growth & activity; conserv.) 994–1000.
- PREDATION, *Crotalus catalinensis* (diet compet. poss. drive for loss of rattle) 80–84; *Alsophis portoricensis anegadae* (*Coenobita chypeatus* major pred.) 93–100; *Rana sylvatica* (feed on eggs of *Pseudacris feriarum*) 131–139; *Eleutherodactylus coqui* (endemic invert. prey reduction) 281–291; *Natrix tessellata* (sit-and-wait piscivore) 426–435; *Caretta caretta* (diet shift from crabs to finfish) 478–489; *Lampropeltis getula* (generalist; list of prey) 507–519; *Caretta caretta* (hatchling surv.; pred. rates) 745–754; *Oophaga pumilio* (coloration, aposematism & chem. defense) 1006–1011; *Pristidactylus volcanensis* (hissing, alarm signals) 1019–1023.
- REPRODUCTION, Ceratioidei (discuss. of reprod. parasitism) 1–34; *Muraena* (*augusti*, *helena*, *melanotis*, *robusta*) (diff. in reprod. strategy) 101–113; *Colostethus subfionidificans* n. sp. (lays eggs on lower surface of live leaves) (tdpl. descrip.) 114–122; *Osteocephalus taurinus*, *Phyllomedusa tarsius* (reprod. behav., breeding pond habitat avail.) 186–192; *Xiphophorus helleri* (female brood patch visual stimulus to male) 212–217; *Crepidophryne* (*epitoca*, *chompipe* n. sp., *guanacaste* n. sp.) (repro. behav. inferred from habitat) 304–314; *Xenosaurus grandis* (age at 1st reprod.) 324–333; *Gopherus polyphemus* (clutch size & freq., geogr. var.) 355–363; *Kinosternon sonoriense* (behav. sex differences) 403–412; *Luperosaurus corfieldi* n. sp. 413–425; *Rana grylio* (reprod. stages; age at maturity) 436–448; *Gopherus polyphemus* (attempted matings) 490–495; *Probreviceps m. macrodactylus* (morph. of clutch & embryos; seasonality; mtDNA; develop.) (compar. to 9 other brevicepitid spp.) 726–733; *Cyclura cyclura inornata* (delayed maturity, low reprod. output) 740–744; *Anolis carolinensis* (eggs; sex deter. of offspring) 829–837; *Allobates* (*niputidea* n. sp.) (tdpl. descrip.) 844–854; *Testudo hermanni* (ecol.; chem. commun.; sex. selection; sex. dimorph.) 980–985.
- SEX, *Crotalus horridus* (effect of recapture; surv. rate factor) 656–671; *Anolis carolinensis* (sex deter. of offspring) 829–837.
- SEXUAL DIMORPHISM, Ceratioidei (males of 8 of 30 genera unknown) (sex. parasitism evolved independently several times) 1–34; *Hypancistrus* (*contradens* n. sp., *debilitata* n. sp., *lunaorum* n. sp.; males w/ nuptial tubercles) (*furunculus* n. sp.; no tubercles observed) 62–79; *Alsophis portoricensis anegadae* (male/female tail length compar.) 93–100; *Muraena* (*augusti*, *helena*, *melanotis*, *robusta*) (none found) 101–113; *Colostethus subfionidificans* n. sp. (male vs. female

- meristic differences) 114-122; *Gasterosteus aculeatus* (external morph.) 336-349; *Hasemania nambiquara* n. sp. (none found) 350-354; *Sternarchogiton nattereri* (secondary sex. dimorph. unique from congeners) 387-402; *Natrix tessellata* (females larger) 426-435; *Rana grylio* (females signif. larger) 436-448; *Photoplagios lateofenestra* n. sp. (males w/ transluc. patch on flank) 622-629; *Atractus ronnie* n. sp. (male vs. female ventral & subcaudal scales) 788-797; *Halichoeres burekai* n. sp. (male & female phase color.) 798-807; *Amolops caelumnocis* n. sp. (male vs. female differences) 913-919; *Testudo hermanni* (chem. commun. & male/female differences; sex. selection) 980-985.
- SIZE**, *Stenocercus santander* n. sp. 56-61; *Crotalus catalinensis* (dwarfism & size of main prey) 80-84; *Alsophis portoricensis anegadae* (males longer & heavier than females) 93-100; *Muraena* (*augusti*, *helenae*, *melanotis*, *robusta*) (size & age at first maturity) 101-113; *Gopherus polyphemus* (body size & clutch size; geogr. var.) 355-363; *Kinosternon sonoriense* (sex & size rel.) 403-412; *Luperosaurus corfieldi* n. sp., *cumingii* (*corfieldi* w/ larger body size than *cumingii*) 413-425; *Natrix tessellata* (females larger; predator-prey size relation.) 426-435; *Rana grylio* (female body size & ovary mass) 436-448; *Bolitoglossa (gomezi)* n. sp., *bramei* n. sp.) (adult body size) 556-565; *Dasyllus albisella* (fish size & feeding heights) 566-576; *Amolops caelumnocis* n. sp. (morph.; no. of body spots increases w/ body size) 913-919.
- SOUND**, *Micropogonias undulatus* ('knock calling,' freq. & duration) 193-204; *Hemiramphus* spp. & *Oxyporhamphus* spp. (vesicular swimbladder; func.) 808-817; *Pristidactylus volcanensis* (hissing, alarm signal; pred.) 1019-1023.
- SURVIVAL**, *Dicamptodon tenebrosus* (larval habitat affect) 123-130; *Xenosaurus grandis* (discuss. rate of surv.) 324-333; Bufonidae, Hylidae, Ranidae (tdpl. oral deform. & surv. rate) 449-458; *Crotalus horridus* (effects of recapture, life hist., & color morph. on surv. rate) 656-671; *Cyclura cychlura inornata* (juv. surv.; life table; high surv. rate) 740-744; *Caretta caretta* (migrat.; orientation; pred. on hatchlings) 745-754; *Etheostoma (flabellare, caeruleum, whipplei)* (response to chem. alarm cues from conspecifics) 838-843; *Oophaga pumilio* (coloration, aposematism & chem. defense; pred.) 1006-1011; *Pristidactylus volcanensis* (alarm signal; hissing sound) 1019-1023.
- SWIMBLADDER**, *Hemiramphus* spp. & *Oxyporhamphus* spp. (vesicular swimbladder; physiol.; func. & phyl. implications) 808-817.
- SYMBIOSIS**, *Forcipiger flavissimus* (facultative cleaning of *Myripristis berndti*) 459-461; *Plethodon cinereus* (antifungal bacteria on skin) 630-640.
- SYSTEMATICS**, Ceratioidei (phyl. anal. of subo.) 1-34; Serranidae, Percidae (implications in Acanthomorpha) (importance of wide representation, molec. study), Percomorpha (phyl. anal. of acanthomorph spp.) (taxon. changes; resurrect. of Epinephelidae & Niphonidae; Moronoidei n. subo.) 35-55; *Hypancistrus (contradens)* n. sp., *debilitata* n. sp., *furunculus* n. sp., *lunaorum* n. sp.) (key to spp.) 62-79; *Gerres (mozambiquensis)* n. sp.) (*G. maldiviensis* redescrip.) (*G. erythraurus* (= *G. abbreviatus*) reinstated) (uncertain status of several nom. spp. discussed) 85-92; *Muraena (augusti, helenae)* (phyl. anal.) (*M. augusti* reinstated) (*M. robusta* w/in *Gymnothorax* clade) 101-113; *Colostethus (olfersioides = alagoanus, = capixaba, = carioca)* 114-122; *Eleutherodactylus (cordovae)* n. sp.; *orestes* group redefined) (*meridionalis* n. sp.; *conspicillatus* group) 140-149; *Astyanax bockmanni* n. sp. (diagn., descrip.) (differs from *A. eigenmannianum* & 11 other spp.) (*A. paranahybae* (describ., uncertain status) 150-162; *Chaenophryne (quasiramifera)* n. sp.; descrip.) (rev. key to spp.) 163-168; *Hypomesus (chishimaensis, nipponensis)* (phyl. anal.; *nipponensis* not distinct sp. or sp.) 180-185; *Psilorhynchus (sucatio, balitora)* (morph., gill-arch osteol.) (rel. to non-cyprinids) 267-280; *Akysis (variegata)* redescribed) (*scorteus* n. sp., *galeatus* n. sp.) 292-303; *Crepidophryne (epiotica)* (redescrip.) (*chompipe* n. sp., *guanacaste* n. sp.) (descrip.) (monophyletic group) 304-314; *Synaphobranchus* (key to all spp.) 315-323; *Hasemania nambiquara* n. sp. (diagn., descrip., rel.) 350-354; *Pteropsaron* (7 spp.), *Osoparon* (2 spp.) (abbrev. key to subfam., gen., & spp.) 364-377; *Sternarchogiton* (rev. genus) (*nattereri*, *preto* n. sp., *labiatus* n. sp.) (abbrev. key to spp.) 387-402; *Oncorhynchus (clarki, mykiss, masou, kisutch, tshawytscha, nerka, keta, gorbusha)* (phyl. anal.) (life hist. traits & behav. traits) 520-533; *Bolitoglossa (gomezi)* n. sp., *bramei* n. sp., *subpalmata* group) (2 unnamed forms) 556-565; *Pachycara (priedei)* n. sp., *cousinsi* n. sp.) (compar. w/ congeners) 586-593; *Percina williamsi* n. sp. (rel. to *P. macrocephala*) 605-613; *Photoplagios lateofenestra* n. sp. (compar. to congeners) 622-629; *Cottus (tallapoosae)* n. sp., *chattahoochee* n. sp.) (compar. to other No. Amer. *Cottus*) 641-655; *Rhynchodoras (castilloi)* n. sp., *woodsii, xingui*) (key to spp.) (rel. to *Rhinodoras* & *Orinodoras*, & to Doradidae & Auchenipteridae) 672-684; *Careproctus* (rev. genus) (*comus* n. sp., *faunus* n. sp.) (compar. to *C. attenuatus*, *C. bowersianus*, *C. mollis*, *C. sinensis*, & *Temnocora candida*) 699-710; *Schizodon (scotorrhadtus)* n. sp., *kneri, isognathus*; compar.) (*isognathus*, lectotype design.) 711-725; *Cyclura carinata bartschi* (ssp. status re-evaluated) 734-739; *Ophichthus brevirostris* n. sp. (comparison to other west. Atlantic & 3 Indo-Pacific *Ophichthus* spp.) 783-787; *Atractus ronnie* n. sp. (compared to 31 other cis-Andean *Atractus* spp.) 788-797; *Halichoeres burekai* n. sp. (phyl. anal.; mtDNA) (compar. to other New World *Halichoeres*) 798-807; *Potamarius usumacintae* n. sp. (key to Atl. Slope Ariidae, No. & Centr. Amer.) 818-828; *Allobates niputidea* n. sp. (rel. to other *Allobates*) 844-854; *Eutropiichthys* (rev. genus) (*britzi* n. sp., *salweenensis* n. sp., plus *muris, burmannicus, vacha*) (key to spp.), *Hypophthalmus gongwaree* (rel. to *Eutro-*

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